Appl. No. 09/929,863 Amdt. Dated August 21, 2003 Reply to Office action of March 12, 2003

IN THE CLAIMS:

Claim 1. (Currently amended) A method to induce differentiation of a an isolated or purified naïve CD4⁺ T cell to a Tr1 cell comprising contacting the naïve CD4⁺ T cell with an appropriate amount of interferon- α (IFN- α) and an appropriate amount of IL-10.

Claim 2. (Currently amended) The method of Claim 1, wherein said Tr1 cell is characterized by:

- a) CD4 expression;
- b) high levels of IL-10 production;
- c) significant levels of TGF-β or IFN-γ production; and
- d) little or no production of IL-4 or IL-2.

Claim 3. (Currently amended) The method of Claim 2, wherein:

- a) said high level of the IL-10 production is at least 6000 pg in 1 ml for 10⁶ colls in 48 h;
- b) said significant level of the TGF-β production is at least 600 100 pg in 1 ml for 10⁶ cells in 48 h:
- c) said significant level of the IFN-γ production is at least 4000 400 pg in 1 ml for 106 cells in 48 h;
- d) said little or no the IL-4 production is less than 200 pg in 1 ml for 10⁶ sell in 48 h; or
- e) said little or no the IL-2 production is less than 200 pg in 1 ml for 106 cell in

when evaluated from cultures of about 106 cells per ml per 48 hours.

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- Claim 4. (Currently amended) The method of Claim 2, wherein:
 - a) said high level of the IL-10 production is at least 6000 12000 pg in 1 ml for 106 cells in 48-h;
 - b) said significant level of the TGF-β production is at least 600 pg in 1 ml for 10⁶ cells in 48-h;
 - c) said significant level of the IFN-γ production is at least 1000 pg in 1 ml for 10⁶ cells in 48-h;
 - d) said little or no the IL-4 production is less than 200 100 pg in 1 ml for 10⁶ cell in 48 h; or
 - e) said-little or no the IL-2 production is less than 200 100 pg in 1 ml for 106 cell-in 48 h;

when evaluated from cultures of about 10⁶ cells per ml per 48 hours.

- Claim 5. (Original) The method of Claim 2, wherein said Tr1 cell:
 - a) has a reduced proliferative potential in response to polyclonal activation;
 and/or
 - b) suppresses response to alloantigens by responder T cells.
- Claim 6. (Currently amended) The method of Claim 1, wherein said Tr1 cells cell suppresses antigen-specific activation of <u>a</u> naive autologous T cells cell.
- Claim 7. (Original) The method of Claim 5, wherein said suppressed response to alloantigens is mediated by IL-10 and/or TGF- β .

Claims 8-10. (Cancelled).

- Claim 11. (Original) The method of Claim 1, wherein said contacting is in combination with an antigen.
- Claim 12. (Original) The method of Claim 11, wherein said antigen is an alloantigen.

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Claim 13. (Currently amended) The method of Claim 1, wherein said Tr1 cells are cell is further proliferated in IL-15.

Claim 14. (Currently amended) The method of Claim 1, wherein said Tr1 cells are cell is further tested for antigen specificity.

Claims 15-18. (Cancelled).

Claim 19. (New) A method to induce differentiation of an isolated or purified cord blood T cell to a Tr1 cell comprising contacting the cord blood cell with an appropriate amount of IFN- α .